

**FORWARD ERROR CORRECTION SCHEME  
COMPATIBLE WITH THE BIT ERROR SPREADING  
OF A SCRAMBLER**

**Abstract**

5        A method for combining a simple forward error correction  
code i.e., a Hamming-like code with scrambling and descrambling  
functions is disclosed. Therefore, irrespective of the  
information to be transported, received data may be corrected,  
bit error spreading effects being handled, while providing  
10 desirable signal characteristics such as signal DC balance and  
enough signal transitions. The overhead introduced by the method  
is a modest increase over the original overhead of the 10Gb  
Ethernet 64B/66B code.